Applicants further request amendment of the application as indicated below and consideration of the following remarks. A petition for a one-month extension of time and a check to cover the petition fee for a large entity are enclosed herewith.

In the Claims

Please cancel Claims 5, 16-33, 39-40 and 90.

Please re-write Claim 1 as follows:

1. (Amended) A compound of the general formula:



wherein:

- a) R_b and R_o are independently -H, unless otherwise noted to be -Cl, -Br, -I, -F, -CN, lower alkyl, -OH, -OR₆,-CH₂-OH, -NH₂, or N(R₆)(R₇), wherein R₆ and R₇ are independently hydrogen or an alkyl or branched alkyl with up to 10 carbons;
- b) R_a is -N3, -C \equiv N, -CH2-C \equiv R, -C \equiv C-R, -C=CH-R, -R-C=CH2, -C \equiv CH, -CH2-C \equiv N, -C(O)-OR3, -O-R, -R-R1, -O-R-R1, OR(O)R, OR(O)R1, -R(O)R, -R(O)R1, -NHC(O)R6, -NRC(O)R6, -NH2, or N(R6)(R7), wherein R6 and R7 are independently hydrogen or an alkyl or branched alkyl with up to 10 carbons, or a hetero group wherein the hetero group may have more than one hetero atom and may be substituted, where R is H or a straight or branched alkyl with up to 10 carbons or aralkyl, and in any position F may be substituted in or on the carbon chain, and R1 is -OH, -NH2, -Cl, -Br, -I, -F or CF3 when R1 is terminal;
 - c) Z' is >COH, unless otherwise noted to be >C-OAc;
- d) >C-Rg is >CH₂, >C=O, >C=N-OH, >C(R₃)OH, >C=N-OR₃, >C(H)-NH₂, >C(H)-NHR₃, >C(H)-NR₃R₄, or >C(H)-C(O)-R₃, where each R₃ and R₄ is independently an alkyl or branched alkyl with up to 10 carbons or aralkyl; or

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 R_g is i) an alkyl of 1-10 carbon atoms that is straight chain or branched, ii) an alkenyl of 1-10 carbon atoms that is straight chain or branched having one or more double bonds at any position from C to Zo, iii) an alkenyl group of 1-10 carbon atoms that is straight chain or branched having one or more triple bonds at any position where chemically possible, iv) a mono or dialkyl amino group wherein each alkyl chain has from 1-10 carbon atoms and is straight chain or branched, v) $(CH_2)_n$ - CF_2 -, $(CH_2)_n$ - CR_1 or $(CH_2)_n$ - CF_3 wherein n=0-10 carbons, or vi) H, and wherein any of i-iv are optionally substituted with an aromatic or heteroaromatic group or optionally substituted with a heterogroup and wherein R_g is either in the α or β position, wherein R_g is not -OH; or

 R_g is Rg_1 and Rg_2 , and wherein Rg_1 may be present or absent and when present is -H, an alkyl, alkenyl, or alkynyl of 1-10 carbon atoms that is straight chain or branched and is optionally substituted, and Rg_2 is a hetero group, wherein when Rg_1 is absent the heterogroup is bonded to the 17-position with a double bond, and wherein either Rg_1 or Rg_2 can be in the β position with the other group in the α position, and R_1 is -OH, $-NH_2$, -Cl, -Br, -I, -F or CF_3 when R_1 is terminal, and wherein Rg_1 or Rg_2 are not together -H and -OH;

e) R_{h1} and R_{h2} are independently H, unless otherwise noted to be a straight or branched chain alkyl, alkenyl or alkynyl with up to 10 carbons that is unsubstituted, or substituted with one or more groups selected from a hetero functionality that is either not substituted, monosubstituted or multiply substituted with an alkyl, alkenyl or alkynyl chain up to 10 carbons; a halo functionality (F, Cl, Br or I); an aromatic group optionally substituted with at least one hetero, halo or alkyl; or R_{h1} and R_{h2} are independently a group containing at least one alphatic or aromatic group optionally substituted with at least one hetero, halo or alkyl;

f) Z" is >CH2;

and wherein all monosubstituted substituents have either an α or β configuration; and wherein lower alkyl is defined as a carbon chain having 1-10 carbon atoms which may be branched or unbranched.

Please re-write Claims 4, 41-56, 81-88 and 91-92 as follows:

4. (Amended) The compound of Claim 1, wherein:

Ra is -OCH3; and

B)

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R_g is =NOH.

41. (Amended)

The compound of Claim 1, wherein:

Ra is -OCH2CH3; and

 R_g is =CHCH₃.

42. (Amended) The compound of Claim 1, wherein:

Ra is -C≡C-CH3; and

 R_g is =CHCH₃.

43. (Amended) The compound of Claim 1, wherein:

 R_a is -C(O)H; and

 R_g is =CHCH₃.

44. (Amended) The compound of Claim 1, wherein:

Ra is -NHC(O)H; and

 R_g is =CHCH₃.

45. (Amended) The compound of Claim 1, wherein:

Ra is -CH2OH; and

 R_g is =CHCH₃.

46. (Amended) The compound of Claim 1, wherein:

Ra is -CH₂CH₃; and

 R_g is =CHCH₃.

47. (Amended) The compound of Claim 1, wherein:

Ra is -CH3; and

 R_g is =CHCH₃.

48. (Amended) The compound of Claim 1, wherein:

Ra is -CH=CHCH3; and

 R_g is =CHCH₃.

49. (Amended) The compound of Claim 1, wherein:

Ra is -OCH2CH3; and

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 R_g is = CH_2 .

50. (Amended) The compound of Claim 1, wherein:

Ra is -C≡CCH₃; and

 R_g is $=CH_2$.

51. (Amended) The compound of Claim 1, wherein:

Ra is -C(O)H; and

 R_g is = CH_2 .

52. (Amended) The compound of Claim 1, wherein:

Ra is -NHC(O)H; and

 R_g is $=CH_2$.

53. (Amended) The compound of Claim 1, wherein:

Ra is -CH2OH; and

 R_g is = $CH_{2.}$

54. (Amended) The compound of Claim 1, wherein:

Ra is -CH2CH3; and

 R_g is $=CH_2$.

55. (Amended) The compound of Claim 1, wherein:

Ra is -CH3; and

 R_g is $=CH_{2}$.

56. (Amended) The compound of Claim 1, wherein:

Ra is -CH=CHCH3; and

 R_g is $=CH_{2}$

81. (Amended) The compound of Claim 1, wherein:

Ra is -OCH2CH3; and

 R_g is =CHCH₂CH₃.

82. (Amended) The compound of Claim 1, wherein:

 R_a is $-C \equiv CCH_3$; and

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 R_g is =CHCH₂CH₃.

83. (Amended) The compound of Claim 1, wherein:

 R_a is -C(O)H; and

 R_g is =CHCH₂CH₃.

84. (Amended) The compound of Claim 1, wherein:

Ra is -NHC(O)H; and

 R_g is =CHCH₂CH₃.

85. (Amended) The compound of Claim 1, wherein:

Ra is -CH2OH; and

 R_g is =CHCH₂CH₃.

86. (Amended) The compound of Claim 1, wherein:

Ra is -CH2CH3; and

 R_g is =CHCH₂CH₃.

87. (Amended) The compound of Claim 1, wherein:

Ra is -CH3; and

 R_g is =CHCH₂CH₃.

88. (Amended) The compound of Claim 1, wherein:

Ra is -CH=CHCH3; and

 R_g is =CHCH₂CH₃.

91. (Amended) The compound of Claim 1, wherein:

 R_a is $-N_3$; and

Rg1 and Rg2 are each H.

92. (Twice Amended) The compound of Claim 1, wherein:

Ra is -H; and

Rg₁ and Rg₂ are each H.

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